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a second interface for connecting to the second device; and

a monitoring system that is capable of monitoring the status of the plurality of dissimilar networks.

B1 2. 46. The router of claim ~~45~~, in which the status comprises at least one of installation status, network health, configuration status, and network availability.

Cmt. 3. 47. The router of claim ~~45~~, further comprising:

a system for determining network selection criteria;

a selector for dynamically selecting at least one of the plurality of networks in accordance with the network selection criteria; and

a switch for switching to the at least one selected network so that data can be transported between the first device and the second device over the at least one selected network.

M&B 48. *C2* 3. The router of claim ~~47~~, in which the switch is capable of switching networks immediately after transporting a first data packet and before transporting a subsequent consecutive data packet.

49. 49. The router of claim ~~47~~, in which the selector is capable of determining a next network from the plurality of networks in accordance with the network selection criteria when the monitoring system determines that the selected network is unavailable.

50. 50. The router of claim ~~49~~, in which the switch is capable of switching to the next network when the monitoring system determines that the selected network is unavailable.

51. 51. The router of claim ~~45~~, in which the networks comprise wireless networks.

52. 52. The router of claim ~~45~~, in which the networks comprise at least one wireless network and at least one wireline network.

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9. 53. The router of claim 45, further comprising a system for interfacing protocolized data into the plurality of dissimilar networks using different protocols.
10. 54. The router of claim 45, in which the plurality of networks comprise switched networks.
11. 55. The router of claim 45, in which the plurality of networks comprise dedicated networks.
12. 56. The router of claim 45, in which the plurality of networks comprise switched networks and dedicated networks.
13. 57. The router of claim 45, in which the plurality of networks comprise at least one of digital networks and analog networks.
14. 58. The router of claim 45, in which at least one of the plurality of networks comprises a packet based wireless network.
15. 59. The router of claim 45, in which the monitoring system determines whether a next network is available for data transport.
16. 60. The router of claim 45, in which the data comprises digital data.
17. 61. The router of claim 60, in which the digital data further comprises digital voice.
18. 62. A method of dynamically routing data between a first device and a second device over a plurality of parallel wireless networks, at least two of the networks being dissimilar, the method comprising:
routing the data through at least one of the dissimilar networks.
19. 63. The method of claim 62, further comprising monitoring the status of the at least two dissimilar networks.

- ~~19~~
20. 64. The method of claim 63, further comprising selecting a network to be used for data transport based upon the monitoring.
- ~~20~~
21. 65. The method of claim 64, in which the selecting occurs when the monitoring determines that the selected network is unavailable.
- ~~19~~
22. 66. The method of claim 63, further comprising determining network selection criteria.
- ~~23~~
23. 67. The method of claim 66, further comprising selecting a network to be used for data transport based upon the monitoring and the network selection criteria.
- ~~24~~ 68. The method of claim 67, further comprising switching to the selected network.
- ~~25~~ 69. The method of claim 68, in which the switching networks occurs immediately after transporting a first data packet and before transporting a subsequent consecutive data packet.
- ~~19~~
26. 70. The method of claim 62, further comprising transporting data via a plurality of protocols comprising at least Internet Protocol (IP) and transparent protocol over the plurality of networks.
- ~~18~~
27. 71. The method of claim 62, further comprising transporting data between the first device and the second device in accordance with the routing, and detecting and correcting errors in transmission of the transported data.
- ~~18~~
28. 72. The method of claim 62, further comprising interfacing protocolized data into the plurality of dissimilar networks using different protocols.
- ~~18~~
29. 73. The method of claim 62, further comprising adapting data to be transported between the first device and the second device, the data being adapted between a first device format utilized by the first device and at least one of a plurality of digital and analog network formats utilized by the plurality of networks.

- B1 CMY*
- ~~29~~
38. ~~74.~~ The method of claim ~~78~~, further comprising:
determining network selection criteria;
dynamically selecting a network from the plurality of networks in accordance with the selection criteria;
switching to the selected network;
dynamically selecting a next network from the plurality of networks in accordance with the selection criteria;
determining whether to switch to the next selected network;
~~switching to the next selected network in response to a result of the determination.~~
- ~~30~~
39. ~~75.~~ The method of claim ~~74~~, further comprising:
transporting the data over the selected network in accordance with one of the network transmission formats;
receiving the transported data from the network;
adapting the transported data between one of the network formats and a second device format utilized by the second device; and
forwarding the transported data to the first device in accordance with the first device format.
- ~~18~~
32. ~~76.~~ The method of claim ~~62~~, in which the plurality of parallel wireless networks comprise at least one of digital networks and analog networks.
- ~~18~~
33. ~~77.~~ The method of claim ~~62~~, in which the plurality of parallel wireless networks comprise at least one wireless network and at least one wireline network.
- ~~18~~
34. ~~78.~~ The method of claim ~~62~~, in which the data comprises digital data.

~~55. 70.~~ The method of claim ~~78~~ in which the digital data further comprises digital voice.

~~56. 80.~~ A method of dynamically routing data between a first device and a second device over a plurality of parallel wireless networks, at least two of the networks being dissimilar, the method comprising:

monitoring the status of the at least two dissimilar networks.

~~57. 81.~~ The method of claim ~~80~~, further comprising routing the data through at least one of the dissimilar networks.

~~58. 82.~~ The method of claim ~~80~~, further comprising selecting a network to be used for data transport based upon the monitoring.

~~59. 83.~~ The method of claim ~~82~~, in which the selecting occurs when the selected network becomes unavailable.

~~60. 84.~~ The method of claim ~~80~~, further comprising determining network selection criteria.

~~61. 85.~~ The method of claim ~~84~~, further comprising selecting a network to be used for data transport based upon the monitoring and the network selection criteria.

~~62. 86.~~ The method of claim ~~85~~, further comprising switching to the selected network.

~~63. 87.~~ The method of claim ~~86~~, in which the switching occurs immediately after transporting a first data packet and before transporting a subsequent consecutive data packet.

~~64. 88.~~ The method of claim ~~80~~, further comprising transporting data via a plurality of protocols comprising at least Internet Protocol (IP), and transparent protocol over the plurality of networks.

receiving the transported data from the network;

adapting the transported data between one of the network formats and a second device format utilized by the second device; and

forwarding the transported data to the first device in accordance with the first device format.

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Cmt
15. 94. The method of claim 80, in which the plurality of parallel wireless networks comprise at least one of digital networks and analog networks.

16. 95. The method of claim 80, in which the plurality of parallel wireless networks comprise at least one wireless network and at least one wireline network.

17. 96. The method of claim 80, in which the data comprises digital data.
18. 97. The method of claim 96, in which the digital data further comprises digital voice.

19. 98. A system for end-to-end data communications where data is transported between a local device and a remote device using at least one of a plurality of parallel wireless networks, at least two of the networks being dissimilar, the system comprising:

a plurality of network interfaces, each network interface interfacing the local device with one of the networks, the network interface comprising a local device protocol-appropriate communications controller connected to the local device; and

a router that interfaces the plurality of parallel wireless networks to the remote device, the router comprising a monitoring system that is capable of monitoring the status of the plurality of dissimilar networks.

55. 99. The system of claim 98, in which at least two of the wireless networks simultaneously actively connect the network interfaces and the router.

89. The method of claim 80, further comprising transporting data between the first device and the second device in accordance with the routing, and detecting and correcting errors in transmission of the transported data.

90. The method of claim 80, further comprising interfacing protocolized data into the plurality of dissimilar networks using different protocols.

91. The method of claim 80, further comprising adapting data to be transported between the first device and the second device, the data being adapted between a first device format utilized by the first device and at least one of a plurality of digital and analog network formats utilized by the plurality of networks.

92. The method of claim 91, further comprising:
determining network selection criteria;
dynamically selecting a network from the plurality of networks in accordance with the selection criteria;
switching to the selected network;
dynamically selecting a next network from the plurality of networks in accordance with the selection criteria;

determining whether to switch to the next selected network;

switching to the next selected network in response to a result of the determination.

93. The method of claim 92, further comprising:
transporting the data over the selected network in accordance with one of the network transmission formats;

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100. The system of claim 98, further comprising a mobile data controller that communicates over at least one of the plurality of parallel wireless networks to the remote device, the mobile data controller comprising a remote device communication interface module that adapts data to be transported between the local device and the remote device, the remote device communication interface module adapting the transported data between a remote device transmission format utilized by the remote device and one of a plurality of analog and digital wireless link transmission formats utilized by the plurality of parallel networks.

22.
101. The system for transporting data according to claim 98, wherein the network interface is adapted to be connected to a plurality of different types of local devices having distinct transmission characteristics.

23.
102. The system for transporting data according to claim 98, in which the plurality of network interfaces are connected by a local network and a synchronization system that synchronizes the transfer of information between the plurality of network interfaces, the information comprising routing tables and health and status information.

24.
103. The system of claim 98, in which the status comprises at least one of installation status, network health, configuration status, and network availability.

25.
104. The system of claim 98, in which the router further comprises:
a system for determining network selection criteria;
a selector for dynamically selecting at least one of the plurality of networks in accordance with the network selection criteria; and

a switch for switching to the at least one selected network so that data can be transported between the first device and the second device over the at least one selected network.

105. The system of claim 104, in which the switch is capable of switching networks immediately after transporting a first data packet and before transporting a subsequent consecutive data packet.

106. The system of claim 104, in which the selector is capable of determining a next network from the plurality of networks in accordance with the network selection criteria when the selected network becomes unavailable.

107. The system of claim 106, in which the switch is capable of switching to the next network when the selected network becomes unavailable.

108. The system of claim 98, in which the plurality of wireless networks comprise at least one wireless network and at least one wireline network.

109. The system of claim 98, in which the router further comprises a system for interfacing protocolized data into the plurality of dissimilar networks using different protocols.

110. The system of claim 98, in which the plurality of networks comprise switched networks.

111. The system of claim 98, in which the plurality of networks comprise dedicated networks.

112. The system of claim 98, in which the plurality of networks comprise switched networks and dedicated networks.

113. The system of claim 98, in which the plurality of networks comprise at least one of digital networks and analog networks.

114. The system of claim 98, in which at least one of the plurality of networks comprises a packet based wireless network.

~~36.~~

~~19 54~~
115. The system of claim ~~98~~, in which the monitoring system determines whether the a network is available for data transport.

~~73.~~

~~19 56~~
116. The system of claim ~~100~~, wherein the mobile data controller is capable of being connected to a plurality of different types of remote devices having distinct operational characteristics.

~~38.~~

~~19 71~~
117. The system of claim ~~98~~, wherein each network interface further comprises a plurality of communication interfaces adapted to transfer the transported data to a plurality of networks.

~~39.~~

~~19 71~~
118. The system of claim ~~98~~, in which the data is transported via a plurality of protocols comprising at least Internet Protocol (IP), and transparent protocol over the plurality of networks.

~~49.~~

~~25~~
119. The system of claim ~~104~~, in which the selector further determines a next wireless communications link from the plurality of networks in accordance with the network selection criteria when the selected network becomes unavailable.

~~41.~~

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120. The system of claim ~~104~~, in which the network selection criteria comprises network availability and the selector selects at least one of the plurality of dissimilar networks when a current network becomes unavailable.

~~42.~~

~~19 71~~
121. The system of claim ~~98~~, in which the local device comprises a plurality of local devices.

~~43.~~

~~19 71~~
122. The system of claim ~~98~~, in which the data comprises digital data.

~~44.~~

~~43~~
123. The system of claim ~~122~~, in which the digital data further comprises digital voice. ~~71~~

REMARKS

With the present Amendment, applicant's have canceled claims 1-44 and submitted new claims 45-123 for consideration. It is believed that all of the new claims are allowable over the prior art of record.